

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1-6. (canceled)

7. (currently amended) A device for automatically sorting individual images of a moving part that moves in a periodic manner, comprising:

an examination monitor having a storage device for data records representing the individual images; and

a measuring and evaluation device which identifies in the data records at least one feature of the moving part appearing in the individual images, and sorts the data records from multiple cycles into a single cyclic sequence based only on displacement of the at least one feature between different said images represented by the data records and a periodicity of the moving part.

8. (previously presented) The device as claimed in claim 7, wherein the cyclically ordered data records are combined to form a film.

9. (currently amended) The device as claimed in claim 7, wherein the a waveform on which the periodicity is based can be prescribed by an input device.

10. (previously presented) The device as claimed in claim 9, wherein the waveforms comprise triangles, rectangles or sinusoidal curves.

11. (previously presented) The device as claimed in claim 7, wherein the data records represent images recorded stroboscopically without defined frequency and phase relationships with the motion of the moving part.

12. (previously presented) The device as claimed in claim 7, wherein the data records are individual images of X-ray pictures.

13. (previously presented) The device as claimed in claim 7, wherein the data records represent individual MR images.

14. (previously presented) The device of claim 7, wherein the data records represent images captured without defined frequency and phase relationships with the motion of the moving part.

15. (previously presented) The device of claim 7, wherein the feature includes at least one of a line and two separate points of the moving part and the displacement of the at least one feature is defined by at least one of distance and phase shifts.

16. (currently amended) The device of claim 11, wherein the at least one feature includes at least one of a line and two separate points of the moving part appearing in the individual

images, and the displacement of the at least one feature is defined by at least one of distance and phase shifts.